

Kalzip MH vapour control layer

The Kalzip vapour control layer MH for Kalzip roof designs with aluminium profiled sheets is a cold-self-adhesive elastomer-bitumen vapour barrier sheet conforming to DIN EN 13970, with an aluminium-polyester combination coating on the top side and aluminium-free edge. It is nailable and safe to walk on.

Product structure

- Top side: aluminium-polyester combination with glass-fibre mat 60 g/m², non-glare coated, with removable longitudinal edge strips; safe to walk on
- Face sheet: cold-self-adhesive elastomer-bitumen
- Underside: removable film with longitudinal edge perforation

Product advantages

Vapour-tight (sd-value > 1,500 m)
Available in a width of 108 cm
Self-adhesive at temperatures as low as + 5 °C
No primer is required on plastic-coated trapezoidal steel liners.
Cold-self-adhesive seam bonds through removable longitudinal edge strips
Clean and quick to lay
Safe to walk on, dimensionally stable
The fire load is substantially reduced in comparison with conventionally used welded bituminous sheeting that is safe to walk on

Area of application

Kalzip VCL MH is used as a vapour control layer for roofs with waterproofing according to DIN 18531, the abc of bituminous sheeting from the vdd e.V. or the flat roof guideline from the ZVDH e.V., preferably on substructures made of trapezoidal steel liner. On sub-constructions made of timber boarding or timber-based materials it is used with subsequently mechanically fastened roof systems.

Installation

On trapezoidal steel liner Kalzip VCL MH is applied, after removing the longitudinal edge strip on the top side and the entire separating film on the underside, by cold self-adhesion to the substrate with a longitudinal and transverse seam overlap of at least 8 cm and with a transverse seam offset. The longitudinal seam overlap should be adhered cold to the upper chord of the trapezoidal profile.

On timber boarding or timber-based materials such as OSB with subsequently mechanically fastened roof systems, the Kalzip VCL MH vapour layer is fixed for mounting by concealed nailing with rough-galvanized clout nails in the overlap and, after removing the longitudinal edge strip on the top side and the

longitudinal seam separating film at the perforation line on the underside, is securely adhered cold with a longitudinal and transverse seam overlap of at least 8 cm and a transverse seam offset.

The transverse seam is similarly securely cold adhered under pressure after peeling back the protective film on the underside. The protective film on the underside outside of the longitudinal and transverse seam remains as a separating layer between the timber sheeting and the vapour barrier.

Storage instructions

The Kalzip vapour control layer should be stored upright in a cool dry place, protected against UV radiation. At colder times of the year the rolls should be stored in a frost-proof temporary store immediately before installation.

Disposal instructions

Polymer-bitumen and bitumen sheeting as well as building site waste (European Waste Catalogue EWC no. 17 03 02 'bitumen mixtures') can be thermally recycled with no environmental effects.

Technical data

Packaging unit

Roll width	1.08 m
Thickness	1.50mm
Quantity	21.6 m ² /roll
Weight	app. 31.6 kg per roll
Pallet unit	20 rolls per pallet
Quantity	432 m ² /pallet

Property according to DIN EN 13970:2004/A1:2006	Test procedure	Product performance
Fire behaviour	EN ISO 11925-2/EN 13501-1	Class E
Watertightness	EN 1928 Verfahren B	200 (24h) kPa
Tensile strength in longitudinal direction transverse direction	EN 12311-1	400 N/50 mm 300 N/50 mm ± 40
Tensile deformation in longitudinal direction transverse direction	EN 12311-1	3 % 3 %
Resistance to static load (method A)	EN 12730	KLF
Resistance to static load (method B)	EN 12730	KLF
Tear strength	EN 12310-1	KLF
Water vapour permeability	EN 1931	$S_d = 1.500$ m
Shear resistance of the joining seams	EN 12317-1	KLF
Water vapour permeability after artificial aging with continuous stress through increased temperature	EN 1296 -> EN 1931	12 weeks $S_d = 1.500$ m
Water vapour permeability after artificial aging with chemicals	EN 1847 -> EN 1928	KLF
Cold bending behaviour	EN 1109	-25°C

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